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# Πληροφοριακό Δελτίο της Ελληνικής Αρχαιομετρικής Εταιρείας

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**- April 2005 -**

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## **ΣΥΝΕΔΡΙΑ - CONFERENCES/WORKSHOPS**

# **6<sup>TH</sup> ANNUAL INTERDISCIPLINARY GRADUATE STUDENT FOOD CONFERENCE, "THE CULTURAL CONTINUUM OF CUISINE AND CONSUMPTION: A SYMPOSIUM ON FOOD, ITS CULTIVATION AND FOOD- ORIENTED /MENTALITÉS"**

**May 20<sup>th</sup> to the 21<sup>st</sup>, 2005, Green College, University of  
British Columbia**

### **Call for Papers**

**Please note the deadline for abstracts: April 1, 2005**

This is the 6th annual interdisciplinary graduate student conference hosted and presented by the graduate students of the department of Classical, Near Eastern and Religious Studies, UBC (with special thanks to the UBC Department of Classical, Near Eastern and Religious Studies, the UBC Faculty of Arts and Green College)

#### **\*Keynote Speaker\***

Dr. Max Nelson: Assistant Professor; Classical and Modern Languages, Literatures, and Civilizations (CMLLC); University of Windsor, Ontario, Canada.

#### **\*Dates\***

Friday and Saturday, May 20th to the 21st, 2005  
Green College, University of British Columbia.

#### **\*Call for Papers\***

The cultivation, exploitation and consumption of food is a basic human necessity. However, there is no question that socio-cultural /mentalités/ with regards to the consumption of food change over time, and that those perspectives were governed by a wider range of determining variables.

We seek papers on the changing methods of the cultivation of food in history, its role in culture and change in /mentalités/ towards food, food gathering, food-ways, food-systems, and the consumption of food in history.

This conference aims to bring together graduate students from science, social science, humanities, fine arts, and beyond in an informal, friendly, and supportive atmosphere where they can present their work, meet others in related areas, debate different points of view, and engage in conversations relating to antiquity and beyond. The conference

will help students develop their public speaking and presentation skills, build their social networks, and provide experience in conference planning and promotion for those who choose to volunteer.

Possible topics for consideration include, but are not limited to, the following:

- the origins of agriculture, ancient civilizations and the cultivation of a food-based economy.
- ancient Near Eastern, Egyptian, Greek, Hellenistic and Roman attitudes towards cuisine, consumption, and social stratification.
- religious or socio-cultural prescriptives regarding cuisine, consumption, and social stratification throughout history.
- food and local or "global" economies in premodern and modern history
- diet, food and consumption in ancient, mediaeval and modern literature.
- consumption and élite cultural prescriptives or sumptuary laws throughout history.
- food, gender, sexuality, otherness and status throughout history.

Please send abstracts (maximum 400 words) and biographies (maximum 50 words) to [roy.kok@gmail.com](mailto:roy.kok@gmail.com) by April 1, 2005. Papers should not exceed 20 minutes. Audiovisual equipment will be available to presenters upon request.

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# **AUSTRALASIAN ARCHAEOLOGY** **CONFERENCE 2005**

**December 12<sup>th</sup> to 15<sup>th</sup> 2005, Australian National  
University, Canberra, Australia**

## **First Call for Papers**

Dear colleagues,

Please find attached the session list and FIRST CALL FOR PAPERS for the Australasian Archaeology Conference December 12th to 15th 2005 at the Australian National University, Canberra, Australia.

This information can also be found at the conference website:

[http://car.anu.edu.au/Archaeology/archaeology\\_conference.html](http://car.anu.edu.au/Archaeology/archaeology_conference.html)

The convenors look forward to receiving your papers!

Andy Fairbairn and Sue O'Connor

\*\*\*\*\*

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## AUSTRALASIAN ARCHAEOLOGY CONFERENCE, 12<sup>TH</sup> TO 15<sup>TH</sup> DECEMBER 2005

### FIRST CALL FOR PAPERS MARCH 2005

Contributions are now requested for the lecture sessions, poster session and workshop of this year's Australasian Archaeology Conference, to be held at the Department of Archaeology and Natural History of the Australian National University, Canberra, Australia from the 12<sup>th</sup> to the 15<sup>th</sup> of December. Sessions have been arranged in six sections:

- Section A. Geoarchaeology
- Section B. Biological Science
- Section C. Material Science
- Section D. Chronology
- Section E. Computer applications
- Section F. Conservation Science
- Section G. General
- Section H. Posters

**PROSPECTIVE CONTRIBUTORS** should contact the session convenors directly (details below). Papers should be limited to 20 minutes in length (excluding question time), unless prior arrangement is made via the convenor with the conference committee; full audio-visual facilities, including digital projection, will be provided.

**PRIZES** of \$200 each will be awarded by the conference for: Best Paper, Best Student Paper and Best Student Poster.

Full details of **REGISTRATION** and **ACCOMMODATION** will be posted by the end of May.

To **CONTACT** the conference organisers email [andrew.fairbairn@anu.edu.au](mailto:andrew.fairbairn@anu.edu.au) or [sue.oconnor@anu.edu.au](mailto:sue.oconnor@anu.edu.au) or snailmail to: Department of Archaeology and Natural History, RSPAS, The Australian National University, ACT 0200, Australia

**WEBSITE:** [http://car.anu.edu.au/Archaeometry/archaeometry\\_conference.html](http://car.anu.edu.au/Archaeometry/archaeometry_conference.html)

## SESSIONS AND WORKSHOPS

### SECTION A. GEOARCHAEOLOGY

#### **1. Sedimentary stratigraphic motifs and taphonomic modes: trends, signatures and bias in archaeological sedimentary records**

**CONVENORS:** [Matiu Prebble](mailto:matiu@coombs.anu.edu.au)<sup>1</sup> and [Anthony Barham](mailto:ajbarham@netspeed.com.au).

**CONTACT:** [matiu@coombs.anu.edu.au](mailto:matiu@coombs.anu.edu.au), [ajbarham@netspeed.com.au](mailto:ajbarham@netspeed.com.au)

<sup>1</sup>Department of Archaeology and Natural History, RSPAS, The Australian National University, ACT 0200, Australia

**ABSTRACT:** The concept that systematic biases of material preservation are associated with particular depositional environments is a central tenet of taphonomic studies and facies theory. The notion follows that recurrent patterns of material preservation are produced, as stratigraphic signatures or "motifs", for deposits found within similar contexts and taphonomic modes. Such modes can be defined as a set of fossil occurrences that result from similar depositional, physical, chemical, and biological processes. In Palaeontology it is commonly accepted that the biases inherent in taphonomic modes define, bias and limit the inferences that can be drawn from stratigraphy regarding changes in organisms, their adaptation to environments and trajectories of environmental change through time.

The session aims to address the question - how relevant are these principles to interpreting archaeological stratigraphic sequences? Papers are invited which examine either theoretically or empirically, the extent to which these principles may be more relevant in archaeology than is commonly recognized, especially when reading and interpreting assemblages in terms of time trends and regional patterns. In this session we call on researchers to examine if recurring taphonomic modes exist within a variety of archaeological contexts and off-site sequences in Australasia. We ask them to explore possible connections between these modes where human influence/actions can be demonstrated in sediment records and where humans are "apparently" absent. Hiatus or disjuncture in sequence records is of particular interest. Topics of interest include:

- I) Biased site evidence from coastal or island settings
- II) Rockshelter sequences and taphonomic megabias
- III) Non-rockshelter depositional settings (e.g. swamps, lakes, forest hollows; agricultural features)
- IV) Nescient sites and the taphonomy of negative evidence (e.g. records of hiatus and disjuncture and records with no archaeological record in spite of expectation)
- V) Instantaneous preservation environments (e.g. sub-tephra deposits)



## **2. Geoarchaeological Approaches to the Surface Archaeological Record**

**CONVENORS:** Patricia Fanning<sup>1</sup>, Justin Shiner<sup>2</sup> and Simon Holdaway<sup>3</sup>

**CONTACT:** [pfanning@gse.mq.edu.au](mailto:pfanning@gse.mq.edu.au)

<sup>1</sup>Graduate School of the Environment, Macquarie University, Sydney, Australia

<sup>2</sup>Comalco Aluminium Ltd, PO Weipa, Qld, Australia

<sup>3</sup>Dept of Anthropology, University of Auckland, New Zealand

**ABSTRACT:** There are two main issues facing archaeologists dealing with the surface archaeological record. The first is chronology: how do you date a record that appears to have no stratigraphy in the conventional sense as found, for example, in caves and rock shelters? The second issue is the integrity of the surface record which is often contrasted unfavourably with that of buried deposits: how can any archaeologically meaningful information be gleaned from surface artefact scatters that are subject to the vagaries of processes like erosion and deposition, not to mention the impacts of human activity?

Until recently, the surface record has been largely ignored by researchers, yet that record makes up a significant proportion of the archaeological record, especially in Australia. Clearly, new approaches are needed, on the one hand to develop a chronology of surface deposits using a range of dating techniques, and on the other hand to understand the preservation, exposure and visibility of the record in its landscape context. We invite papers that address these issues.

## **SECTION B. BIOLOGICAL SCIENCE**

### **3. WORKSHOP - The evidence for fire in the past: anthropogenic versus natural origin**

**CONVENOR:** Simon Haberle<sup>1</sup>

**CONTACT:** [simon.haberle@anu.edu.au](mailto:simon.haberle@anu.edu.au)

<sup>1</sup>Department of Archaeology and Natural History, RSPAS, The Australian National University, ACT 0200, Australia

**ABSTRACT:** Charcoal fragments of various sizes have been used in archaeological and palaeoecological research in the Australasian and Pacific region as indicators of past fire regimes of natural and/or anthropogenic origin. In this workshop we will explore the techniques available to reconstruct past fire regimes and look at the notion of fire as a key subsistence tool in regional prehistory. Seminar presentations and discussion will be complemented by a laboratory session, including a demonstration of ANU archaeology's new digital microscopy lab.

#### **4. Plant microfossils and the archaeological record**

CONVENOR: Judith Field<sup>1</sup>

CONTACT: [judith.field@emu.usyd.edu.au](mailto:judith.field@emu.usyd.edu.au)

<sup>1</sup>Australian Key Centre for Microscopy and Microanalysis, The University of Sydney, N.S.W. 2006, Australia

ABSTRACT: Plant microfossils are an important component in functional artefact analyses and environmental reconstructions. In archaeological studies, functional analysis of stone tools can provide important information about site function and changes in resource use through time. Residue analysis is a central aspect of these studies and is a useful tool within the context of broader research questions. Recently, plant microfossils have received increasing attention, particularly ancient starch and phytoliths. This session aims to present the latest developments in research direction and methodological outcomes that have emerged as a result of the expanding interest in this field.

#### **SECTION C. MATERIAL SCIENCE**

##### **5. Innovative approaches to understanding technology**

CONVENORS: Oliver MacGregor<sup>1</sup> and Chris Clarkson<sup>2</sup>

CONTACT: [Oliver.Macgregor@anu.edu.au](mailto:Oliver.Macgregor@anu.edu.au), [c.clarkson@uq.edu.au](mailto:c.clarkson@uq.edu.au)

<sup>1</sup>School of Archaeology and Anthropology, Australian National University, ACT0200, Australia

<sup>2</sup>The University of Queensland, Brisbane, Qld 4067

ABSTRACT: Analysis of prehistoric technology is undergoing rapid and exciting development with the emergence of new approaches to understanding and describing assemblage variability. This session aims to present some of these new developments in the analysis of stone, shell and other technologies, with a focus on technological and quantitative approaches, controlled experimentation, and studies which incorporate new measurement and analytical techniques not previously employed in artefact analysis.

##### **6. Recent Advances in Artefact Characterisation and Material Analyses.**

CONVENORS: Glenn Summerhayes and Peter Grave

CONTACT: [glenn.summerhayes@stonebow.otago.ac.nz](mailto:glenn.summerhayes@stonebow.otago.ac.nz), [pgrave@pobox.une.edu.au](mailto:pgrave@pobox.une.edu.au)

<sup>1</sup>Department of Anthropology, University of Otago, PO Box 56, Dunedin, New Zealand

<sup>2</sup>Department of Archaeology and Palaeoanthropology, University of New England, Armidale, NSW 2351, Australia

ABSTRACT: Recent advances in inorganic and bio-molecular techniques have resulted in a raft of actual or potential applications to archaeological materials. The purpose of this session is to showcase new and exciting studies which are on the cutting edge both within Australia and internationally. The session will also include applied case studies that have used an archaeological science approach to significantly advanced our understanding of aspects of social, political or economic dynamics in past societies.

## SECTION D. CHRONOLOGY

### 7. Chronological confidence – the construction of robust archaeological timeframes

CONVENOR: Ed Rhodes<sup>1</sup>

CONTACT: [ed.rhodes@anu.edu.au](mailto:ed.rhodes@anu.edu.au)

<sup>1</sup>Research School of Earth Sciences, The Australian National University, ACT 0200, Australia

ABSTRACT: This session will examine different approaches to developing the most robust, accurate and reliable chronological control for archaeological sites. We aim to provide an Australasian focus by including papers which examine issues particular to this region, while also benefiting from developments in technology or approach that have been made in other parts of the world. We are looking for contributions which highlight different ways to achieve robust, accurate and reliable chronologies, for example through the use of

- i) innovative screening or assessment procedures,
- ii) multiple independent techniques,
- iii) the adoption of novel statistical methods,
- iv) the adoption of new technical developments,

or other methods specifically aimed at improving chronological control of archaeological events and contexts.

### 8. Advances in rock art dating

CONVENORS: Sue O'Connor<sup>1</sup>, Maxime Aubert, and Alan Watchman<sup>1</sup>

CONTACT: [sue.oconnor@anu.edu.au](mailto:sue.oconnor@anu.edu.au)<sup>1</sup>

<sup>1</sup>Department of Archaeology and Natural History, RSPAS, The Australian National University, ACT 0200, Australia

ABSTRACT: A fundamental problem for archaeologists specialising in rock art is the need for a reliable method of dating. Without the ability to date the art it is impossible to integrate this unique aspect of human symbolic expression with the occupation records obtained from excavated assemblages. This session will explore new innovative methods of rock art dating and advances and improvements in existing methods. For example, the application of the uranium-series dating method to date natural travertine deposits overlying painted images has recently proved very successful requiring only microgram-sized samples. The session will also explore issues surrounding the integration of chronologies obtained from stratigraphies bracketing rock art production with those obtained from occupation sequences.

## **9. Improving the Marine Chronology**

**CONVENORS:** Fiona Petchey<sup>1</sup> and Atholl Anderson<sup>2</sup>

**CONTACT:** [fpetchey@waikato.ac.nz](mailto:fpetchey@waikato.ac.nz)

<sup>1</sup>Radiocarbon Dating Laboratory, University of Waikato, Private Bag 3105, Hamilton, New Zealand

<sup>2</sup>Department of Archaeology and Natural History, RSPAS, The Australian National University, ACT 0200, Australia

**ABSTRACT:** Marine shell has several advantages for 14C dating in the Pacific - namely it is ubiquitous in archaeological sites and is easy to identify to the species level. Consequently, shells are one of the most commonly dated radiocarbon sample types within this region. However, the interpretation of shell dates is encumbered by variability in the surface ocean marine 14C reservoir, both regionally and over time, and by uncertainties with the reliability of some species due to habitat and dietary preferences. The modelled marine calibration curve and its associated regional offsets (known as  $\Delta R$ ) originally constructed by Stuiver and others in 1986, has been widely accepted as the most accurate method for calibrating surface marine 14C dates. Unfortunately, a lack of regional marine 14C offsets is a continuing problem for the accurate calibration of dates on marine shell and other animals that subsisted on marine resources.

Papers are invited that investigate all aspects of marine shell dating. This session will specifically focus on exploring gaps in our knowledge of marine reservoir variation and the impact this has had on the development of reliable archaeological site chronologies.

## **SECTION E. COMPUTER APPLICATIONS**

### **10. GIS and 'Legacy Data'**

**CONVENOR:** Penelope M. Allison<sup>1</sup> and Pat Faulkner<sup>1</sup>

**CONTACT:** [pim.allison@anu.edu.au](mailto:pim.allison@anu.edu.au), [pat.faulkner@anu.edu.au](mailto:pat.faulkner@anu.edu.au)

<sup>1</sup>School of Archaeology and Anthropology, Australian National University, ACT0200, Australia

**ABSTRACT:** GIS is widely used in archaeology to map data from current excavations. However, GIS is also a useful tool for revisiting old excavations and historical sources with new questions. There are large data sets from previous excavations, published and unpublished, whose digitisation and spatial mapping can facilitate investigations of social behaviour and changing environmental conditions. Added to that, there are also archives of historical maps and plans whose digitisation and combination with other archaeological data give greater insights into past human behaviour. This session will include papers from a number of projects, working in different parts of the world, that are using this 'legacy data' to answer specific questions concerned with the social use of space (e.g. urban and military), vegetational change, or language distribution. The papers will discuss the relevance of spatial mapping to the particular aims of these projects and the approaches taken to synthesize and analyse these large datasets to reach these aims. They will include discussions on the various computer techniques used to retrieve and format particular data and how GIS is facilitating re-analysis and reassessment of these large sets of 'legacy data'.

## **SECTION F. CONSERVATION SCIENCE**

### **11. Archaeology and conservation**

CONVENORS: Judith Cameron<sup>1</sup> and Eric Archer<sup>2</sup>

CONTACT: [judith.cameron@anu.edu.au](mailto:judith.cameron@anu.edu.au)

<sup>1</sup>Department of Archaeology and Natural History, RSPAS, The Australian National University, ACT 0200, Australia

<sup>2</sup>National Museum of Australia, ACT 2600, Australia

ABSTRACT: Organic materials represent some of the greatest challenges for archaeologists not only during excavation but also for preservation. The papers in this session describe some recent collaborations between archaeologists and conservators that aim to better understand the processes controlling the degradation of organic materials at archaeological sites.

## **SECTION G: GENERAL**

### **12. Studies in archaeological Science**

CONVENOR: Andrew Fairbairn<sup>1</sup>

CONTACT: [andrew.fairbairn@anu.edu.au](mailto:andrew.fairbairn@anu.edu.au)

<sup>1</sup>Department of Archaeology and Natural History, RSPAS, The Australian National University, ACT 0200, Australia

ABSTRACT: Archaeological science is an ever-expanding discipline and, try as we may, we have been unable to cater for all subjects in the conference. In this session we call for papers on these areas or those that synthesise/integrate archaeological science disciplines and other archaeological studies.

## **SECTION H: POSTERS \*PRIZE AWARD\***

CONVENOR: Nuno Oliveira<sup>1</sup>

CONTACT: [nuno.oliveira@anu.edu.au](mailto:nuno.oliveira@anu.edu.au) [NB between June and September 05 contact [andrew.fairbairn@anu.edu.au](mailto:andrew.fairbairn@anu.edu.au)]

<sup>1</sup>Department of Archaeology and Natural History, RSPAS, The Australian National University, ACT 0200, Australia

A poster session featuring studies in archaeological science will be held during the conference at which there will be ample time for discussion with conference delegates. Posters are a good way of presenting highly focused and technical studies, or those in the early stages of development. We strongly encourage student participation in this session and the conference will be awarding a prize of \$200 for the Best Student Poster.

Please contact the convenor for technical specifications for the posters (maximum size etc). Several websites provide advice on preparing posters, for example:

<http://www.swarthmore.edu/NatSci/cpurrrin1/posteradvice.htm>

[http://www.acponline.org/srf/abstracts/pos\\_pres.htm](http://www.acponline.org/srf/abstracts/pos_pres.htm)

# **NATIONAL ACADEMY OF SCIENCES** **SACKLER, EARLY CITIES** **COLLOQUIUM, 5/18-5/20/05**

**The Early Cities colloquium will take place at the National Academy of Sciences building in Washington D.C. on May 18-20, 2005.**

Many disciplines including Sociology, Demography, Geography, Architecture and Urban Planning, Economics, Anthropology, and History are increasingly interested in "urbanism," particularly since much of the world is being converted into cities and vast metropolitan areas. A diverse group of scholars, who have employed different methods and a wide array of perspectives in their study of early cities, are featured at the Arthur M. Sackler colloquium "Early Cities: New Perspectives on Pre-Industrial Urbanism" scheduled for May 18-20, 2005 at the National Academies Building in Washington, D.C.

The ten archaeological case studies will be discussed by a group of distinguished scholars from fields such as geography, economics, urban planning, architecture, and environmental psychology. All 10 case studies will be accompanied by slides.

To facilitate the participation of younger anthropologists and social scientists, a number of travel grants will be available for graduate students and postdocs to help subsidize their travel to the conference.

For more information or to register for the colloquium, please go to [www.nas.edu/sackler/earlycities](http://www.nas.edu/sackler/earlycities) or email us at [sackler@nas.edu](mailto:sackler@nas.edu)

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# **XIV INTERNATIONAL MATERIALS RESEARCH CONGRESS 2005**

**Cancún, México, August 21<sup>st</sup>-25<sup>th</sup>, 2005**

**February 2<sup>nd</sup>, 2005 circular**

Dear Colleagues,

The Academia Mexicana de Ciencia de Materiales A. C. in coordination with recognized Mexican Institutions in the Science field are pleased to announce the “XIV International Materials Research Congress” to be held in Cancún, Quintana Roo, México from August 21<sup>st</sup> to 25<sup>th</sup>, 2005.

Inside of this congress will be carried out the realization of the symposium “Archaeological and Art issues in Materials Science ”, where Dr. Jesús A. Arenas, Dr. José Luis Ruvalcaba and Dr. Demetrio Mendoza are responsible chairmen. The main objective of this symposium is to join a group of well-known researches from different disciplines to present their works related with the study and conservation of archaeological and heritage materials and to generate an extend debate which enriches the results presented, propitiating the exchange of knowledge.

Consequently we want to invite you to attend the meeting and to send your abstract before May 15<sup>th</sup> 2005. Type the title in capital letters. Immediately below the title, enter the authors and their affiliations (include city, state and country) in the exact style and order you want them to appear in the Program and Abstract Book. Use upper and lower case for authors and affiliations. Be sure to underline the Presenting Author Name. Type your abstract one blank line below the author and affiliation information. Use single spacing and letter size 12.

Abstracts should not exceed 300 words. Abstract must be submitted to any of the following electronic mails: [jarenas@fisica.unam.mx](mailto:jarenas@fisica.unam.mx), [dma@nuclear.inin.mx](mailto:dma@nuclear.inin.mx) or [sil@fisica.unam.mx](mailto:sil@fisica.unam.mx).

You can obtain more information in the home page:  
<http://www.viep.buap.mx/imrc2005.htm>

We thank you very much in advance to your attention to this matter and looking forward to see you in Cancún.

Sincerely,

Dr. Demetrio Mendoza  
Ciencia de Materiales, ININ, ININ.

Dr. José Luis Ruvalcaba  
Instituto de Física, UNAM

Dr. Jesús A. Arenas  
Instituto de Física, UNAM

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**PRIMER CONGRESO ARGENTINO DE  
ARQUEOMETRIA, “METODOLOGÍAS  
CIENTÍFICAS APLICADAS AL ESTUDIO  
DE LOS BIENES CULTURALES”,  
DATACIÓN, CARACTERIZACIÓN,  
PROSPECCIÓN, CONSERVACIÓN**

**Rosario, 20-21 de Octubre de 2005**

Señor Investigador,

Adjunto a la presente reiteramos el envío de la Primer Circular del 1er. Congreso Argentino de Arqueometría, con la nueva fecha límite de recepción de resúmenes que se ha prorrogado hasta el 30 de abril de 2005.

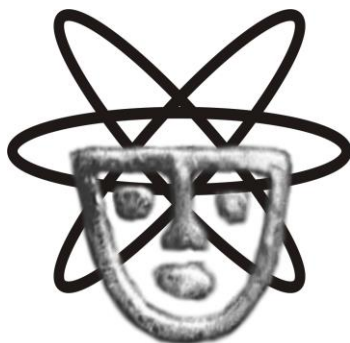
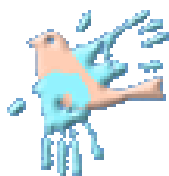
En los próximos días les remitiremos la Segunda Circular con información adicional. Se ruega la difusión de esta circular y confiamos en contar con su participación.

p/ Comisión Organizadora

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Ing. Adrián Angel Pifferetti    Lic. Nélide de Grandis  
Presidente Secretaria

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## PRIMER CONGRESO ARGENTINO DE ARQUEOMETRIA

“METODOLOGÍAS CIENTÍFICAS APLICADAS AL ESTUDIO DE LOS BIENES CULTURALES”  
DATACIÓN, CARACTERIZACIÓN, PROSPECCIÓN, CONSERVACIÓN.

Rosario, 20-21 de Octubre de 2005

“Toda arqueología de materiales es una arqueología humana” José Saramago “La Caverna”

### Organizan:

Facultad de Humanidades y Artes  
Facultad de Ingeniería, Ciencias Exactas y Agrimensura  
Universidad Nacional de Rosario.

### 1ª CIRCULAR

#### FUNDAMENTACIÓN

Hacer arqueología en el siglo XXI implica cada vez más hablar de Carbono 14, dendrocronología, termoluminiscencia, paleomagnetismo, microscopía electrónica, microsonda láser, observaciones con luz infrarroja o ultravioleta, difracción de rayos X, posicionadores satelitales, sensores remotos, bioarqueología, zooarqueología, geoarqueología, metalografía, análisis polínicos, concentración de fosfatos, radiografía, termografía, técnicas estadísticas, informatización, etc.; es decir la aplicación de técnicas analíticas provenientes de las ciencias duras al estudio de los materiales arqueológicos y a sus contextos naturales.

El campo de acción de la arqueometría consiste en efectuar diferentes estudios que permiten encuadrar los objetos en su contexto arqueológico e histórico ya que cada artefacto elaborado por el hombre tiene un contenido simbólico y expresivo anclado a un soporte material.

Mientras que el estudio del contenido simbólico es competencia del arqueólogo, del historiador, del etnohistoriador; el análisis del soporte material es de interés arqueométrico: Naturaleza de los materiales, proveniencia, cronología, alteraciones, etc., conocimientos necesarios, además, para encarar tareas de conservación y restauración. Los estudios arqueométricos sólo pueden lograr su cometido cuando se encaran como parte de una actividad transdisciplinaria.

Integran las actividades de la arqueometría, entre otros, la datación radioisotópica de los materiales provenientes de una excavación arqueológica, el estudio petro-geoquímico de una talla en piedra o de una cerámica, la estratigrafía de una pintura, el análisis

metalográfico de una aleación, el estudio dietario a partir de los materiales óseos de antiguas poblaciones, la determinación de proveniencia de materiales, la autenticación o no de un bien cultural.

La realización de este Congreso permitirá conocer y difundir el estado actual de los estudios arqueométricos en el país, exponer los avances alcanzados, ofrecer a los participantes niveles de reflexión y diálogo sobre las diferentes problemáticas y sus metodologías. Además posibilitará el intercambio de experiencias y la colaboración entre los diferentes equipos de investigación con el objeto de establecer nuevos ámbitos de trabajos interdisciplinarios.

### **COMITÉ CIENTÍFICO**

Alberto Rex González, Dora Krasnopolsky de Grinberg, Víctor A. Núñez Regueiro, Aníbal J. Figini, Noemí E. Walsøe de Reza, Daniel Schavelzon, Myriam N. Tarragó, Antonio Introcaso, Antonio G. Austral, Roberto Bárcena, Humberto Lagiglia, Edgardo Garbulsky, María Carlota Sempé, Ruth A. Poujade.

### **COMISIÓN ORGANIZADORA REGIONAL**

Edgardo D. Cabanillas, Carlos N. Ceruti, Carmen Curbelo, Patricia Frazzi, Mario Garavaglia, Luis R. González, Daniel E. Olivera, Tulio A. Palacios, Mariano S. Ramos, Mario Silveira, Alicia Tapia.

### **COMISION ORGANIZADORA LOCAL**

Adrián Ángel Pifferetti (Presidente), Nélide De Grandis (Secretaria), Ana Maria Rocchietti (Coordinación Institucional Facultad de Humanidades y Artes), Benito Vicioso (Coordinación Institucional Facultad de Ingeniería Ciencias y Agrimensura), Raúl E. Bolmaro, María Teresa Carrara, Oscar De Santis, Francisco Latucca, Juan Bautista Leoni, Inés Maldonado, Juan Nóbile, Fernando Oliva, Eduardo Peralta, Mónica Valentini, Claudio Martignoni.

### **ACTIVIDADES**

El Congreso Argentino de Arqueometría tendrá las siguientes actividades:

1. Sesiones Plenarias de Apertura y Clausura.
2. Conferencias Magistrales.
3. Mesas de Comunicaciones.
4. Reuniones sociales, programa cultural y turismo.

Las Mesas de Comunicaciones serán:

- Arqueometria de la datación
- Prospección y otras aplicaciones en trabajos de campo.
- Caracterización de Materiales (biológicos, metálicos, cerámicos, pétreos, pigmentos, vidrios, etc.)
- Preservación y Conservación
- Estadística e Informática aplicadas a la Arqueología.

### **RESÚMENES**

Los interesados en presentar trabajos deberán remitir antes del 30 de abril de 2005 un resumen de una página como máximo en Word 6.0 o superior, formato A4, letra Times New Roman 12, interlineado 1,5 que incluya además los siguientes datos:

- Título (Mayúsculas y Negrita)
- Mesa de Comunicaciones en que desea presentarlo
- Apellido/s y Nombre/s de Autor/a (es/as)

- Institución a la que pertenece/n  
 E-mail

Los mismos deberán enviarse del siguiente modo:

**Impreso (2 copias) por correo postal a:**

Comisión Organizadora  
Primer Congreso Argentino de Arqueometría  
Laboratorio de Materiales y Tecnologías  
Escuela de Antropología. Facultad de Humanidades y Artes  
Universidad Nacional de Rosario  
Entre Ríos 758. CP 2000. Rosario (Santa Fe) – Argentina  
TE y FAX: 0341-4802675

Vía electrónica a la Organización del Congreso: [congreso.arqueometria@gmail.com](mailto:congreso.arqueometria@gmail.com)

**INSCRIPCIÓN**

Las categorías de inscripción y los montos correspondientes son:

Categoría	Hasta el 30/06/2005	Con posterioridad al 30/06/2005
Titulares	\$ 60,00	\$ 80,00
Asistentes	\$ 50,00	
Estudiantes	\$ 25,00	Recibe los materiales
	Gratuita	Certificado de asistencia

**PÁGINA WEB**

La Comisión Organizadora del Congreso habilitará un sitio web a fin de proporcionar a los participantes e interesados toda la información relativa al Congreso.

## **IBA2005: DEADLINE FOR ABSTRACTS EXTENDED**

Dear Colleagues,

Due to many request by authors, the Organizing Committee of the "17<sup>th</sup> International Conference on Ion Beam Analysis (IBA 2005)", which will take place in Seville (Spain) from 26th June to 1st July 2005, has decided to extend the deadline for abstract submission to March 27.

We look forward to welcoming you to Seville and interacting with you during the conference. A great effort to identify all e-mail addresses of the IBA Community has been made, but some of them might be outdated or might have unintentionally been missed. We would therefore greatly appreciate it if you forward this message to your colleagues who are currently active in IBA, or others potentially interested to attend the conference.

The conference website (<http://www.us.es/iba2005>) will constantly be updated with relevant information and will be site for registration and abstract submission.

Kind regards,

IBA2005 Organizing Committee.

--

17<sup>th</sup> International Conference on Ion Beam Analysis (IBA2005)

\*\*\*\*\*

Contact Address:

Centro Nacional de Aceleradores.

Parque Tecnológico Cartuja '93. Av. Thomas A. Edison.

E-41092 Sevilla. SPAIN.

Phone: +34.954.460.553. Fax: +34.954.460.145

E-mail: [iba2005@us.es](mailto:iba2005@us.es)

Web: <http://www.us.es/iba2005>

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**INTERNATIONAL CONFERENCE OF  
COMPUTATIONAL METHODS IN SCIENCES  
AND ENGINEERING 2005, (ICCMSE 2005)  
HOTEL POSEIDON, LOUTRAKI,  
KORINTHOS, GREECE, 21-26 OCTOBER 2005**

**First announcement and call for papers**

URL address: <http://www.uop.gr/~iccmse/>

In the past decades many significant insights have been made in several areas of Computational Methods in Sciences and Engineering. New problems

and methodologies have appeared. There is permanently a need in these fields for the advancement of information exchange. This undoubtedly beneficial practice of interdisciplinary and multidisciplinary interactions should be expressed by an interdisciplinary and multidisciplinary conference on Computational Methods in Sciences and Engineering. ICCMSE 2005 aims at playing the above role and for this reason the aim of the conference is to bring together computational scientists and engineers from several disciplines in order to share methods, methodologies and ideas.

**The topics to be covered include (but are not limited to):**

Computational Mathematics, Theoretical and Computational Physics and Theoretical and Computational Chemistry, Computational Engineering and Mechanics, Computational Biology and Medicine, Computational Geosciences and Meteorology, Computational Economics and Finance, Financial Forecasting, Scientific Computation, High Performance Computing, Parallel and Distributed Computing, Visualization, Problem Solving Environments, Software Tools, Advanced Numerical Algorithms, Modelling and Simulation of Complex System, Web-based Simulation and Computing, Grid-based Simulation and Computing, Computational Grids, Fuzzy Logic, Hybrid Computational Methods, Data Mining and Information Retrieval, Virtual Reality, Reliable Computing, Image Processing, Computational Science and Education etc.

**General Chair:**

Professor Dr. T.E. Simos, Academician, University of Peloponnese, Tripolis, Greece.

**Co-Chair:**

Professor Dr. George Maroulis, University of Patras, Patras, Greece.

**Scientific Committee:**

Dr. Hamid R. Arabnia, The University of Georgia, USA

Dr. B. Champagne, Université de Namur, Belgique

Prof. S. Farantos, University of Crete, Greece

Prof. I. Gutman, University of Kragujevac, Serbia & Montenegro Prof. P. Mezey, Memorial University of Newfoundland, Canada Prof. C. Pouchan, Université de Pau, France. Dr. G. Psihoyios, Vice-President ESCMSE Prof. B. M. Rode, University of Innsbruck, Austria. Prof. A. J. Thakkar, University of New Brunswick, Canada

### **Highlighted Lectures:**

"Electronic Structure of Molecules and Materials: From Coupled-Cluster Theory to DFT to the Transfer Hamiltonian" R.J.Bartlett Graduate Research Professor of Chemistry and Physics Quantum Theory Project University of Florida

"Quantum theory of chemical reactions"

D.Clary

Head of Mathematical and Physical Sciences Division

University of Oxford, England

Editor of Chemical Physics Letters.

"Can Heisenberg spin coupling parameters be reliably extracted from unrestricted calculations?" E.R.Davidson, University of Washington, USA Associate Editor of The Journal of Chemical Physics Associate Editor of Advances in Quantum Chemistry Advisory Editor of Chemical Reviews

During ICCMSE 2005 a symposium for the celebration of David Bishop's contribution will take place

Title: Electric (hyper)polarizability: >From atoms and molecules to the nonlinear optics of materials. (Organizer G. Maroulis, University of Patras, Greece maroulis@upatras.gr)

### **Proceedings:**

Short papers will be published in a special volume of:

The VSP/Brill SERIES ON COMPUTER AND ON COMPUTATIONAL SCIENCES .

We note that the above series will be included in the Science Citation Index.

- Invited Papers will be published in a Special Volume of the Lecture Series on Computer and Computational Sciences (VSP/Brill)

- Short papers (4 A4 pages) will be published in a Special Volume of the Lecture Series on Computer and Computational Sciences (VSP/Brill)

Each participant of ICCMSE 2005 will receive 2 Volumes of the Proceedings of ICCMSE 2005. The First Volume contains the papers of Invited Lecturers and Second Volume contains the short papers of the participants The journals which until now have accepted to publish selected Proceedings of ICCMSE 2005 are:

- Journal of Computational Methods in Sciences and Engineering - JCMSE (IOS Press)

- Journal of Mathematical Chemistry (Springer-Verlag)
- MATCH (Communications in Mathematical and in Computer Chemistry)
- Applied Mathematics and Computation (Elsevier Science Publishers)
- Computers & Fluids (Elsevier Science Publishers)
- Molecular Simulation (Taylor & Francis)
- International Journal of Quantum Chemistry (Wiley & Sons)
- Polymer (Elsevier Science Publishers)
- Journal of Molecular Structures (THEOCHEM) (Elsevier Science Publishers)
- Mathematical and Computer Modelling (Elsevier Science Publishers)
- The Journal of Supercomputing (Kluwer Academic Publishers)
- Computing Letters (VSP/Brill)

#### Call for Sessions, Workshops and Minisymposia

Each session's organizer will be responsible for the selection of papers. Each session or workshop should include at least 8 papers (from which 2 papers can be from the Organiser or his team). Each minisymposium should include at least 10 papers (from which 2 papers can be from the Organiser or his team). The Session and the Symposium organisers will have benefits that are negotiable with the General Chair

Professor Theodore Simos ([tsimos@mail.ariadne-t.gr](mailto:tsimos@mail.ariadne-t.gr) and [iccmse@uop.gr](mailto:iccmse@uop.gr))

DEADLINE FOR MINISYMPOSIA, SESSIONS AND OR WORKSHOP PROPOSAL:  
15 June 2005 (PLEASE REFER TO THE NOTES IN THE PAGES OF CALL FOR PAPERS AND IMPORTANT DATES)

WE NOTE THAT THE SHORT PAPERS OF THE PAPERS OF EACH MINISYMPOSIUM OR SESSION OR WORKSHOP MUST BE ARRIVED VIA E-MAIL TO THE SECRETARY OF THE EDITOR OF ICCMSE 2005 AT: [iccmse@uop.gr](mailto:iccmse@uop.gr) NO LATER THAN 20 July 2005.

#### Call for papers

You are invited to submit a paper and/or proposal to organise a workshop, session or minisymposium. All accepted papers will be published in the Proceedings of ICCMSE 2005 which will be published in the special volume of the VSP/Brill Series: LECTURE SERIES ON COMPUTER SCIENCE AND ON COMPUTATIONAL SCIENCES. We note that the above series will be included in the Science Citation Index. (see



<http://www.uop.gr/~iccmse/proceeding.htm>). A selected number of papers will be published in special issues of appropriate journals (see <http://www.uop.gr/~iccmse/proceeding.htm>). Deadline for submission: 20 July 2005. All the papers should be send to: Secretary of the Editor of ICCMSE 2005. E-mail: [iccmse@uop.gr](mailto:iccmse@uop.gr), Postal Address: 26 Menelaou Street, Amfithea Paleon Faliro, GR-175 64 Athens, Greece, Fax: +30210 94 20 091 or + 30 2710 237397

### **Best Student Paper Award**

During the Conference Award(s) will be given to the Best Student Paper(s).

### **Contact information:**

Secretary ICCMSE 2005 (Mrs Eleni Ralli-Simou), E-mail: [iccmse@uop.gr](mailto:iccmse@uop.gr), Postal Address: 26 Menelaou Street, Amfithea Paleon Faliron, GR-175 64, Athens, Greece, Fax: +30210 94 20 091 or + 30 2710 237397

\*\*\*\*\*

Professor Dr. T.E. Simos, Academician  
President of the European Society of Computational Methods  
in Sciences and Engineering (ESCMSE)  
Active Member of the European Academy of Sciences and Arts Corresponding Member  
of the European Academy of Sciences Corresponding Member of European Academy of  
Arts, Sciences and Humanities Fellow of the Royal Society of Chemistry (FRSC)  
URL: <http://www.uop.gr/~simos>

\*\*\*\*\*



**INTERNATIONAL SYMPOSIUM ON**  
**“ARMS AND ARMOUR THROUGH THE**  
**AGES”, 19TH – 21ST NOVEMBER 2005,**  
**MODRA-HARMONIA, SLOVAKIA**

**1st Circular**

The Institute of Classical Archaeology of Trnava University has the pleasure to invite you to an International Symposium on “ARMS AND ARMOUR THROUGH THE AGES” (from the Bronze Age to Late Antiquity)

The symposium will focus on political, religious and technical aspects of weapons and warfare as well as on topics concerning militaria in the cult, in the literary sources and in the arts.

All papers will be published in our journal *Anodos* 4/2005.

Place: Modra-Harmónia (ca. 25 km from Bratislava, Slovakia)

Date : 19th – 21st November 2005

Symposium languages: English, German, French

Registration fee: 1000.- Sk/ca. 25.- €

Accommodation: 320.- Sk/ca. 8.- € (1 night)

City Tax: 10.- Sk/ca. 0.25 €(1 day)

Meals (breakfast, lunch, dinner): ca. 350.- Sk/ca. 9.- € (1 day)

The Symposium is jointly organised by the Institute of Classical Archaeology of Trnava University and the Institute of Archaeology of the Selcuk University at Konya (Turkey).

We thank in advance for a prompt reply.

Our best regards,

The Organising Committee, Trnava, 18th February 2005

Prof. Dr. Mária Novotná

Prof. Dr. Werner Jobst

Prof. Dr. Mustafa Sahin

Assoc. Prof. Dr. Klára Kuzmová

Visiting Assoc. Prof. Dr. Marie Dufková

Pavol Hnila, MA

More information and the registration form may be obtained on:  
<http://klasarch.truni.sk> or [klasarch@truni.sk](mailto:klasarch@truni.sk)

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## **CANADIAN ACADEMIC INSTITUTE IN ATHENS STUDENT CONFERENCE**

Dear colleagues,

The Canadian Academic Institute in Athens, in conjunction with the Classics Section of Concordia University, is sponsoring the third biennial Student Conference. The meetings will be held at Concordia University in Montreal, on September 23 - 24, 2005. Senior undergraduate or graduate students are invited to submit research papers on any subject of Greek studies, ancient to modern, in any discipline.

Please submit your abstract electronically to [sheila.campbell@utoronto.ca](mailto:sheila.campbell@utoronto.ca) by May 5, 2005, clearly stating your academic affiliation, the time required (15 - 30 minutes), and whether any audio-visual aides are required. Notification of acceptance of the paper will be sent by May 30, 2005.

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**ΘΕΣΕΙΣ ΕΡΓΑΣΙΑΣ/ΥΠΟΤΡΟΦΙΕΣ –**  
**JOB VACANCIES/FELLOWSHIPS**

**GRADUATE OPPORTUNITIES AT**  
**RLAHA, OXFORD UNIVERSITY**

Applications are invited for places on the one-year MSc in Archaeological Science and for PhD studentships from October 2005 in the Research Laboratory for Archaeology and the History of Art, University of Oxford. Bursaries and funding may be available for suitable applicants. Applicants should have, or expect to obtain, a first or upper second class degree (or equivalent) in archaeology or a science subject.

PhD Applications are welcomed in all areas of research at the Laboratory, including dating (radiocarbon, OSL, dendrochronology, tephrochronology), biomolecular archaeology (including isotopic studies of diet, nutrition, status, mobility) and materials studies (technology, provenance, conservation science).

Letters of application for MSc and PhD (indicating area of interest) and accompanied by a CV and names and addresses of two referees should be sent to Professor Robert Hedges, RLAHA, 6 Keble Road, Oxford OX1 3QJ. Further information is obtainable by email ([robert.hedges@rlaha.ox.ac.uk](mailto:robert.hedges@rlaha.ox.ac.uk) or [mark.pollard@rlaha.ox.ac.uk](mailto:mark.pollard@rlaha.ox.ac.uk)).

\*\*\*\*\*

Professor A.M. Pollard  
Edward Hall Professor of Archaeological Science  
Research Lab for Archaeology, University of Oxford  
tel +44 1865 273938 fax +44 1865 273932

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## **GRADUATE STUDIES AT CALIFORNIA STATE UNIVERSITY LONG BEACH**

Please bring this message to the attention of promising undergraduates who would like to start a master's degree program in Fall, 2005. Thank you very much, and I apologize for any cross-posted duplicates you may receive.

Specific to the interests of this list, we have just hired a palaeoclimatologist, Camille Holmgren, who does work on Holocene environmental change using woodrat middens. She will work as liaison between Geography and the CSULB Institute for Integrated Research in Materials, Environments, and Society. IIRMES includes a rich array of instruments of utility in reconstructing past environments, including a GBC Optimass orthogonal TOF ICP-MS, an Analytical FEI Quanta 200 Environmental Scanning Electron Microscope, a Finnegan MAT Delta-XP Stable Isotope Gas-Ratio Mass Spectrometer, and an HP Gas Chromatography Mass Spectrometer. We welcome our newest faculty member with great enthusiasm and we look forward to deepening our ability to foster graduate research in Holocene environmental change.

Chrys Rodrigue  
Chair, Geography  
California State  
University, Long Beach

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The Department of Geography at California State University, Long Beach, invites applications for its master's degree program, for Fall 2005 admission.

Geography at CSULB has three main emphases:

- \* environmental and physical geography, including palaeoclimatology, hazards, hydrology and water resources, biogeography, and arid lands geomorphology
- \* geospatial technologies and methods, including GIS, remote sensing, cartography, quantitative methods, qualitative methods, and field techniques (featuring a NASA Regional Earth Science Applications Center housed in the Department and Map Lab, which does custom mapping and GIS analysis for the surrounding municipalities and regional agencies)
- \* human geography, including economic geography, urban cultural geography, social geography, and medical geography

The campus is the most frequently requested of the 23 CSU campuses and it features the largest library in the CSU system, as well as easy access to the UCLA and USC research libraries. CSULB is an attractive campus near the beach in a pleasant, livable community. Ours is a friendly, co-operative, and student-centered faculty, who work hard to help graduate students define and achieve their educational and professional goals in a timely manner. There is an active community of graduate students here.

Estimated graduate student fees for the Fall 2005 semester are \$981.00 for graduate students taking 6 or fewer units and \$1,572.00 for those taking more than 6 units. For

out-of-State students (except teachers, military personnel, children of California residents, and those who graduated from a California high school), there is an out-of-State surcharge of \$339 per unit. Limited numbers of non-resident surcharge fee waivers are available on a competitive basis, however.

Some research and student assistantships are available for American citizens or permanent residents, and the Department has a large internship program. International students should contact our Center for International Education to learn about application and support procedures specific to their situations:

[http://www.csulb.edu/divisions/aa/grad\\_undergrad/cie/](http://www.csulb.edu/divisions/aa/grad_undergrad/cie/).

To learn more about the CSULB Department of Geography, please visit:

<http://www.csulb.edu/geography/>.

For information on the master's degree program and a link to the requirements of the degree, please visit: <http://www.csulb.edu/geography/geogma.html>.

To apply, please send a set of official transcripts and a 1-2 page statement of purpose and arrange for three confidential letters of reference to be sent to the graduate advisor. Letters of reference and statements of purpose may be sent by e-mail or fax. All materials should arrive by 17 June 2005 to ensure accepted applicants are eligible to take classes in Fall 2005.

\*\*\*\*\*

Dr. Christopher T. Lee, Graduate Advisor  
Department of Geography  
California State University  
Long Beach, CA 90840-1101  
Tel.: 1 (562) 985-2358 or -8432  
Fax: 1 (562) 985-8993  
E-mail: [clee@csulb.edu](mailto:clee@csulb.edu)

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Additionally, you must also apply directly to the University itself, which can be done online at <http://www.csumentor.edu>. Official transcripts must be provided to the campus separately. International students need to contact the Center for International Education as well.



## **FIELDWORK OPPORTUNITIES IN CYPRUS SUMMER 2005**

For fieldwork opportunities in Cyprus this summer, please see details of the following at:  
<http://www.arcl.ed.ac.uk/arch/field/>

[Souskiou-Laona Settlement Excavation.](#)

Cyprus, 2005

16th August – 12th September 2005

[Excavation at the Early Neolithic settlement of Ais Yiorkis](#)

Paphos, Cyprus

30<sup>th</sup> May – 17<sup>th</sup> June & 20<sup>th</sup> June – 8<sup>th</sup> July 2005

[Lithic Field School](#)

Cyprus 2005

17th -26th August, 2005

\*\*\*\*\*

Professor Edgar Peltenburg

Archaeology

University of Edinburgh

E-mail: [e.peltenburg@ed.ac.uk](mailto:e.peltenburg@ed.ac.uk)

URL: <http://www.arcl.ed.ac.uk/arch/lemba/homepage.html>

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## POST-DOC POSITION AT MICHIGAN TECH

I'm sending this note to you as Graduate Program Chair at the suggestion of anthropology and archaeology faculty in the department here. We wish to draw your attention to a postdoctoral research associate position that we will soon be filling at Michigan Tech. The position is to be supported by an NSF Small Grant for Training and Research, which is the product of our efforts here to develop a stronger research domain at the intersection of historical archaeology, the history of technology, industrial archaeology and material culture, and industrial heritage. We will be launching a new doctoral program in this area in August, expanding our MS in industrial archaeology and history of technology, and have plans to develop international linkages as part of the research effort.

We are hoping to identify a recent Ph.D. holder for this postdoctoral opportunity. We are seeking an individual with interests in material culture and industrial history -- but are trying to cast a very wide net. Beginning scholars with backgrounds in historical archaeology, history of technology, environmental history, labor history, historical archaeology, and historic preservation are among the possibilities we are willing to entertain. We will develop a program of teaching and research for the holder of this position that combines their their interests and strengths with the planned directions of the graduate program.

We have delayed decisions about this search while waiting to receive final word from the NSF confirming the grant, and that is expected any day. I am in the final stages of insuring that we have a strong pool of applicants. Could I ask that you make sure that current students and recent graduates learn about this opportunity? The position will be listed as a one-year posting, with the opportunity of being renewed at least once. Questions may be directed to me - and there is a good description of the doctoral program itself on our website -- <http://www.social.mtu.edu/IHAPhd.htm>

An announcement about the position itself is attached.

Thanks for your assistance!

\*\*\*\*\*

Bruce Seely  
Department Chair, Social Sciences  
Michigan Technological University  
[bseely@mtu.edu](mailto:bseely@mtu.edu)  
phone: 906/487-2113

\*\*\*\*\*

## **UNIV. DURHAM ARCHAEOLOGY POSTS**

Five new academic posts are being advertised in the Department of Archaeology at the University of Durham (UK):

Three professor/readerships in Medieval Archaeology, European Prehistory, and Aegean/Eastern Mediterranean Prehistory. Lectureship in Archaeological Science. Lectureship in European/Aegean/Eastern Mediterranean Prehistory.

Applications from those with other areas of expertise are also encouraged.

Details can be found at the following URL:

[http://www.dur.ac.uk/archaeology/about\\_vacancies/about\\_vacancy.php](http://www.dur.ac.uk/archaeology/about_vacancies/about_vacancy.php)

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## **ΑΝΑΚΟΙΝΩΣΕΙΣ - ANNOUNCEMENTS**

### **INTCAL04 RELEASE NOTICE**

Calibrated radiocarbon ages are the basis for comparison between many records in paleoclimatological, geophysical, and archaeological studies. It is therefore necessary to have a standard radiocarbon calibration data set for intercomparisons to be valid. The radiocarbon community has recognized this need and hence has adopted an international standard for calibration, IntCal04 which was ratified at the 18th International Radiocarbon Conference in Wellington New Zealand. The importance of the quality of the data set used for calibration cannot be overstated. The IntCal04 working group and the journal *Radiocarbon* is thus pleased to announce the release and publication of IntCal04: Calibration Issue" as a special issue of *Radiocarbon* (v46, n3, 2004). Concurrent with the IntCal04 release and consistent with previous incarnations of IntCal is a revision and update of the calibration software program CALIB.

We would like to thank all of the working group authors, collaborators, reviewers, and the radiocarbon community for participating in this process. Special thanks to the *Radiocarbon* staff, especially managing editor Mark McClure.

Please visit <http://www.radiocarbon.org> to download personal copies of IntCal04 and links to internationally standardized and accepted radiocarbon calibration software programs (BCal, CAL25, CALIB, OxCal).

The IntCal issue and release of the IntCal04 data sets would not have been possible without the financial assistance of the Leverhulme Trust, the NSF's Earth System History Program, and the University of Arizona/Radiocarbon. The NSF's Earth System History Program funded revision and updating of CALIB.

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**MEETING OF THE EUROPEAN  
ASSOCIATION OF ARCHAEOLOGISTS,  
CORK, IRELAND, 2005**

Dear all,

I'm planning to organise a session called "The Archaeology of Early Iron Age Greece" in the Annual Meeting of the European Association of Archaeologists (Cork, Ireland). Any of you interested in presenting a paper, please feel free to contact me for further information.

All the best,

Ioannis Georganas

\*\*\*\*\*

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Mediterranean Archaeology Resources  
[http://www.geocities.com/i\\_georganas/main.html](http://www.geocities.com/i_georganas/main.html)

\*\*\*\*\*



## [www.conservationissues.com](http://www.conservationissues.com)

[www.conservationissues.com](http://www.conservationissues.com) is a self - funded project, by a small group of conservation students at the Technological Educational Institute (T.E.I.) of Athens, Greece. It's main goal is to offer a dynamic and fully interactive website to the International Conservation - Restoration Community and at the same time to experiment with the abilities of new technology for the service of professional conservation - restoration practices. It aims to provide professionals and students with the facility to raise any queries they may have and exchange ideas and information.

Subscribers can register for free and this will enable them to keep up with the latest conservation news, publish their own journals, review conservation and restoration materials and make announcements. You can also search for new titles and any job opportunities that may become available.

We need your participation to help make this the "Ultimate Guide" to conservation. The handiest tool for any professional!!!

The Conservation Issues team

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## ΟΜΙΛΙΑ

**ΤΙΤΛΟΣ : “Micro-XRF goes 3D: Oversights and insights of archaeometric objects.”**

**Ομιλητής : Professor Dr. Birgit Kanngießer**

**Technical University of Berlin  
Institut für Atomare Physik und Fachdidaktik  
Berlin**

Ημερομηνία : Παρασκευή 8 Απριλίου 2005  
Ώρα : 12:00

**Αίθουσα ΘΕΜΗ  
ΠΑΡΑΔΕΛΛΗ (Βιβλιοθήκη  
Tandem)**

## **SAS SPONSORED FORUM AT THE SAAS**

Planning to go to the upcoming SAA meetings in Salt Lake City? Please consider attending this year's SAS sponsored forum entitled "Bridging the Gap: Integrating Archaeological Sciences and Archaeology". The forum will take place Saturday afternoon (1-3:30) in Room 251 D, E at the Salt Palace Convention Center. The discussant panel includes practitioners and consumers of archaeological science from diverse educational and professional backgrounds, and forum discussions will focus on central issues such as 1) how and when specialists should be integrated into archaeological research projects; 2) what drives archaeometric research, including the introduction and adoption of new techniques, within the national and international communities; and 3) effective ways to prepare students for careers in archaeological science or for communicating with archaeological scientists. Special guest panelist John Yellen, the Archaeology Program Director of the National Science Foundation, will be on hand to discuss the funding outlook for archaeological sciences in the U.S. All interested individuals are encouraged to attend. A lively audience discussion is expected and student participation is particularly welcome!

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## *INTERNET SITES*

### **NEW VERSION OF UNESCO ARCHIVES PORTAL / NOUVELLE VERSION DU PORTAL D'ARCHIVES DE L'UNESCO**

More than 7,500 websites of archives and archival resources all over the world can be accessed through the new version of the “UNESCO Archives Portal”, that was launched last week at [http://www.unesco.org/webworld/portal\\_archives](http://www.unesco.org/webworld/portal_archives)

The Directory, which receives more than 7,000 visits a month, lists since five years websites of archives of the public and the private sector, including universities and research institutions and websites of resources related to archives and records management. It also provides a News service.

All content can be accessed by regions and countries. Visitors to the UNESCO Archives Portal can also browse through pre-established categories or search for specific words. They can add a new link or modify an already existing link. The "In Focus" section presents websites of archives which are particularly interesting.

Together with the Libraries Portal, the Free Software Portal and the Observatory of the Information Society, the UNESCO Archives Portal is one of the clearing house services of WebWorld, the website of UNESCO's Communication and information Sector and part of the UNESCO Knowledge Portal.

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Plus de 7500 sites web d'archives et de ressources archivistiques du monde entier sont désormais accessibles grâce à la nouvelle version du Portail d'archives de l'UNESCO », repertoire de sites web relatifs à la gestion des documents et des archives, lance la semaine dernière.

Ce repertoire recoit plus de 7000 visites par mois et liste depuis cinq ans les sites web d'archives des secteurs privé et public, dont des universités et des établissements de recherche relatives à la gestion des documents et des archives. Il fournit également un service d'actualités.

Tout le contenu est accessible par région et par pays. Les visiteurs du Portail d'archives de l'UNESCO peuvent également accéder à l'information grâce à des catégories pré-établies ou bien effectuer une recherche par mots spécifiques. Ils peuvent ajouter un nouveau lien ou modifier un lien déjà existant. La section "En vedette" présente les sites web d'archives qui sont particulièrement intéressants.

Tout comme le Portail des bibliothèques, le Portail des logiciels libres et l'Observatoire Société de l'information, le Portail des archives de l'UNESCO représente l'un des services centraux de WebWorld, site web du Secteur de la Communication et de l'information de l'UNESCO et fait partie intégrante du Portail de la connaissance de l'UNESCO.



## **TAC SPOTLIGHTS ARCHAEOLOGY ON TV**

Friends and colleagues: Archaeology has become a popular topic among television audiences around the world, especially in the UK. Issues surrounding the portrayal of archaeology on television are laid out in *Ephemera: Archaeology on Television*, the newest video addition to our nonprofit streaming-media Web site, *The Archaeology Channel* (<http://www.archaeologychannel.org>).

Produced by Sean Caveille, this film is a video mirror between the Past and the Future displayed on the tactile surface of an ancient megalith. The striking images in *Ephemera* were achieved using a digital projector to physically display the filmed interviews onto the building fabric of West Kennet long barrow, part of the ancient Avebury complex in Wiltshire, UK. In this projected dimension, three key archaeology/media figures discuss archaeology's portrayal on UK television: Mike Pitts, Editor of *British Archaeology* magazine; Francis Pryor, President of the Council for British Archaeology; and Julian Richards, TV and radio broadcaster. Archaeology has become so popular on UK television that it prompts questions about the proper relationship between the profession and the medium.

This and other programs are available on TAC for your use and enjoyment. We urge you to support this public service by participating in our Membership (<http://www.archaeologychannel.org/member.html>) and Underwriting (<http://www.archaeologychannel.org/sponsor.shtml>) programs. Only with your help can we continue and enhance this nonprofit public-education and visitor-supported service. We also welcome new content partners as we reach out to the world community.

\*\*\*\*\*

Richard M. Pettigrew, Ph.D., RPA  
President and Executive Director  
Archaeological Legacy Institute  
<http://www.archaeologychannel.org>

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***ΝΕΕΣ ΕΚΔΟΣΕΙΣ – NEW PUBLICATIONS***

**INGENTA: TABLE OF CONTENTS**  
**ALERT - RADIOCARBON VOL. 46 NO. 3**  
**(MARCH 2005)**

Record 1.

TI: From the Guest Editor

AU: Paula J. Reimer

JN: Radiocarbon

PD: March 2005

VO: 46

NO: 3

PG: v-viii(1)

PB: Arizona Board of Regents (University of Arizona)

IS: 0033-8222

URL: [http://www.ingentaselect.com/rpsv/cgi-bin/cgi?body=linker&reqidx=0033-8222\(20050301\)46:3L.51;1-](http://www.ingentaselect.com/rpsv/cgi-bin/cgi?body=linker&reqidx=0033-8222(20050301)46:3L.51;1-)

Click on the URL to access the article or to link to other issues of the publication.

Record 2.

TI: Reidar Nydal (1926-2004)

AU: E Marian Scott

JN: Radiocarbon

PD: March 2005

VO: 46

NO: 3

PG: ix-xi(1)

PB: Arizona Board of Regents (University of Arizona)

IS: 0033-8222

URL: [http://www.ingentaselect.com/rpsv/cgi-bin/cgi?body=linker&reqidx=0033-8222\(20050301\)46:3L.91;1-](http://www.ingentaselect.com/rpsv/cgi-bin/cgi?body=linker&reqidx=0033-8222(20050301)46:3L.91;1-)

Click on the URL to access the article or to link to other issues of the publication.

Record 3.

TI: IntCal04 Terrestrial Radiocarbon Age Calibration, 0-26 Cal Kyr BP

AU: Paula J. Reimer; Mike G.L. Baillie; Edouard Bard; Alex Bayliss; J Warren Beck; Chanda J.H. Bertrand; Paul G. Blackwell; Caitlin E. Buck; George S. Burr; Kirsten B. Cutler; Paul E. Damon; R Lawrence Edwards; Richard G. Fairbanks; Michael Friedrich; Thomas P. Guilderson; Alan G. Hogg; Konrad A. Hughen; Bernd Kromer; Gerry McCormac; Sturt Manning; Christopher Bronk Ramsey; Ron W. Reimer; Sabine Remmele; John R. Southon; Minze Stuiver; Sahra Talamo; F.W. Taylor; Johannes van der Plicht; Constanze E. Weyhenmeyer

JN: Radiocarbon

PD: March 2005

VO: 46

NO: 3

PG: 1029-1058(30)

PB: Arizona Board of Regents (University of Arizona)

IS: 0033-8222

URL: [http://www.ingentaselect.com/rpsv/cgi-bin/cgi?body=linker&reqidx=0033-8222\(20050301\)46:3L.1029;1-](http://www.ingentaselect.com/rpsv/cgi-bin/cgi?body=linker&reqidx=0033-8222(20050301)46:3L.1029;1-)

Click on the URL to access the article or to link to other issues of the publication.

Record 4.

TI: Marine04 Marine Radiocarbon Age Calibration, 0-26 Cal Kyr BP

AU: Konrad A. Hughen; Mike G.L. Baillie; Edouard Bard; J Warren Beck; Chanda J.H. Bertrand; Paul G. Blackwell; Caitlin E. Buck; George S. Burr; Kirsten B. Cutler; Paul E. Damon; Richard L. Edwards; Richard G. Fairbanks; Michael Friedrich; Thomas P. Guilderson; Bernd Kromer; Gerry McCormac; Sturt Manning; Christopher Bronk Ramsey; Paula J. Reimer; Ron W. Reimer; Sabine Remmele; John R. Southon; Minze Stuiver; Sahra Talamo; F.W. Taylor; Johannes van der Plicht; Constanze E.

Weyhenmeyer

JN: Radiocarbon

PD: March 2005

VO: 46

NO: 3

PG: 1059-1086(28)

PB: Arizona Board of Regents (University of Arizona)

IS: 0033-8222

URL: [http://www.ingentaselect.com/rpsv/cgi-bin/cgi?body=linker&reqidx=0033-8222\(20050301\)46:3L.1059;1-](http://www.ingentaselect.com/rpsv/cgi-bin/cgi?body=linker&reqidx=0033-8222(20050301)46:3L.1059;1-)

Click on the URL to access the article or to link to other issues of the publication.

Record 5.

TI: ShCal04 Southern Hemisphere Calibration, 0-11.0 Cal Kyr BP

AU: F.G. McCormac; A.G. Hogg; P.G. Blackwell; C.E. Buck; T.F.G. Higham; P.J. Reimer

JN: Radiocarbon

PD: March 2005

VO: 46

NO: 3

PG: 1087-1092(6)

PB: Arizona Board of Regents (University of Arizona)

IS: 0033-8222

URL: [http://www.ingentaselect.com/rpsv/cgi-bin/cgi?body=linker&reqidx=0033-8222\(20050301\)46:3L.1087;1-](http://www.ingentaselect.com/rpsv/cgi-bin/cgi?body=linker&reqidx=0033-8222(20050301)46:3L.1087;1-)

Click on the URL to access the article or to link to other issues of the publication.

Record 6.

TI: Formal Statistical Models for Estimating Radiocarbon Calibration Curves

AU: C.E. Buck; P G Blackwell

JN: Radiocarbon

PD: March 2005

VO: 46

NO: 3

PG: 1093-1102(10)

PB: Arizona Board of Regents (University of Arizona)

IS: 0033-8222

URL: [http://www.ingentaselect.com/rpsv/cgi-bin/cgi?body=linker&reqidx=0033-8222\(20050301\)46:3L.1093;1-](http://www.ingentaselect.com/rpsv/cgi-bin/cgi?body=linker&reqidx=0033-8222(20050301)46:3L.1093;1-)

Click on the URL to access the article or to link to other issues of the publication.

Record 7.

TI: Counting Statistics and ion Interval Density in AMS

AU: John S. Vogel; Ted Ognibene; Magnus Palmblad; Paula Reimer

JN: Radiocarbon

PD: March 2005

VO: 46

NO: 3

PG: 1103-1109(7)

PB: Arizona Board of Regents (University of Arizona)

IS: 0033-8222

URL: [http://www.ingentaselect.com/rpsv/cgi-bin/cgi?body=linker&reqidx=0033-8222\(20050301\)46:3L.1103;1-](http://www.ingentaselect.com/rpsv/cgi-bin/cgi?body=linker&reqidx=0033-8222(20050301)46:3L.1103;1-)

Click on the URL to access the article or to link to other issues of the publication.

Record 8.

TI: The 12,460-Year Hohenheim Oak and Pine Tree-Ring Chronology from Central Europe—a Unique Annual Record for Radiocarbon Calibration and Paleoenvironment Reconstructions

AU: Michael Friedrich; Sabine Remmele; Bernd Kromer; Jutta Hofmann; Marco Spurk; Klaus Felix Kaiser; Christian Orzel; Manfred Koppers

JN: Radiocarbon

PD: March 2005

VO: 46

NO: 3

PG: 1111-1122(12)

PB: Arizona Board of Regents (University of Arizona)

IS: 0033-8222

URL: [http://www.ingentaselect.com/rpsv/cgi-bin/cgi?body=linker&reqidx=0033-8222\(20050301\)46:3L.1111;1-](http://www.ingentaselect.com/rpsv/cgi-bin/cgi?body=linker&reqidx=0033-8222(20050301)46:3L.1111;1-)

Click on the URL to access the article or to link to other issues of the publication.

Record 9.

TI: Radiocarbon Calibration in the Anglo-Saxon Period: AD 495-725

AU: F.G. McCormac; A. Bayliss; M.G.L. Baillie; Brown

JN: Radiocarbon

PD: March 2005

VO: 46

NO: 3

PG: 1123-1125(3)

PB: Arizona Board of Regents (University of Arizona)

IS: 0033-8222

URL: <http://www.ingentaselect.com/rpsv/cgi-bin/cgi?body=linker&reqidx=0033->

[8222\(20050301\)46:3L.1123;1-](http://www.ingentaselect.com/rpsv/cgi-bin/cgi?body=linker&reqidx=0033-8222(20050301)46:3L.1123;1-)

Click on the URL to access the article or to link to other issues of the publication.

Record 10.

TI: Radiocarbon Calibration and Comparison to 50 Kyr BP with Paired 14C and 230TH Dating of Corals from Vanuatu and Papua New Guinea

AU: K.B. Cutler; S.C. Gray; G.S. Burr; R.L. Edwards; F.W. Taylor; G. Cabioch; J.W. Beck; H. Cheng; J. Moore

JN: Radiocarbon

PD: March 2005

VO: 46

NO: 3

PG: 1127-1160(34)

PB: Arizona Board of Regents (University of Arizona)

IS: 0033-8222

URL: [http://www.ingentaselect.com/rpsv/cgi-bin/cgi?body=linker&reqidx=0033-8222\(20050301\)46:3L.1127;1-](http://www.ingentaselect.com/rpsv/cgi-bin/cgi?body=linker&reqidx=0033-8222(20050301)46:3L.1127;1-)

Click on the URL to access the article or to link to other issues of the publication.

Record 11.

TI: Cariaco Basin Calibration Update: Revisions to Calendar and 14C Chronologies for Core PL07-58PC

AU: Konrad A. Hughen; John R. Southon; Chanda J.H. Bertrand; Brian Frantz; Paula Zermeno

JN: Radiocarbon

PD: March 2005

VO: 46

NO: 3

PG: 1161-1187(27)

PB: Arizona Board of Regents (University of Arizona)

IS: 0033-8222

URL: [http://www.ingentaselect.com/rpsv/cgi-bin/cgi?body=linker&reqidx=0033-8222\(20050301\)46:3L.1161;1-](http://www.ingentaselect.com/rpsv/cgi-bin/cgi?body=linker&reqidx=0033-8222(20050301)46:3L.1161;1-)

Click on the URL to access the article or to link to other issues of the publication.

Record 12.

TI: Present Status of Radiocarbon Calibration and Comparison Records based on Polynesian Corals and Iberian Margin Sediments

AU: Edouard Bard; Guillemette Menot-Combes; Frauke Rostek

JN: Radiocarbon

PD: March 2005

VO: 46

NO: 3

PG: 1189-1202(14)

PB: Arizona Board of Regents (University of Arizona)

IS: 0033-8222

URL: [http://www.ingentaselect.com/rpsv/cgi-bin/cgi?body=linker&reqidx=0033-8222\(20050301\)46:3L.1189;1-](http://www.ingentaselect.com/rpsv/cgi-bin/cgi?body=linker&reqidx=0033-8222(20050301)46:3L.1189;1-)

Click on the URL to access the article or to link to other issues of the publication.

Record 13.

TI: Late Glacial 14C ages from a Floating, 1382-Ring Pine Chronology

AU: Bernd Kromer; Michael Friedrich; Konrad A. Hughen; Felix Kaiser; Sabine Remmele; Matthias Schaub; Sahra Talamo

JN: Radiocarbon

PD: March 2005

VO: 46

NO: 3

PG: 1203-1209(7)

PB: Arizona Board of Regents (University of Arizona)

IS: 0033-8222

URL: [http://www.ingentaselect.com/rpsv/cgi-bin/cgi?body=linker&reqidx=0033-8222\(20050301\)46:3L.1203;1-](http://www.ingentaselect.com/rpsv/cgi-bin/cgi?body=linker&reqidx=0033-8222(20050301)46:3L.1203;1-)

Click on the URL to access the article or to link to other issues of the publication.

Record 14.

TI: Radiocarbon Results from a 13-Kyr BP Coral from the Huon Peninsula, Papua New Guinea

AU: G.S. Burr; Chrystie Galang; F.W. Taylor; Christina Gallup; R Lawrence Edwards; Kirsten Cutler; Bill Quirk

JN: Radiocarbon

PD: March 2005

VO: 46

NO: 3

PG: 1211-1224(14)

PB: Arizona Board of Regents (University of Arizona)

IS: 0033-8222

URL: [http://www.ingentaselect.com/rpsv/cgi-bin/cgi?body=linker&reqidx=0033-8222\(20050301\)46:3L.1211;1-](http://www.ingentaselect.com/rpsv/cgi-bin/cgi?body=linker&reqidx=0033-8222(20050301)46:3L.1211;1-)

Click on the URL to access the article or to link to other issues of the publication.

Record 15.

TI: NotCal04-Comparison/Calibration 14C Records 26-50 Cal Kyr BP

AU: J van der Plicht; J.W. Beck; E. Bard; M.G.L. Baillie; P.G. Blackwell; C.E. Buck; M. Friedrich; T.P. Guilderson; K.A. Hughen; B. Kromer; F.G. McCormac; C Bronk Ramsey; P.J. Reimer; R.W. Reimer; S. Remmele; D.A. Richards; J.R. Southon; M. Stuiver; C.E. Weyhenmeyer

JN: Radiocarbon

PD: March 2005

VO: 46

NO: 3

PG: 1225-1238(14)

PB: Arizona Board of Regents (University of Arizona)

IS: 0033-8222

URL: [http://www.ingentaselect.com/rpsv/cgi-bin/cgi?body=linker&reqidx=0033-8222\(20050301\)46:3L.1225;1-](http://www.ingentaselect.com/rpsv/cgi-bin/cgi?body=linker&reqidx=0033-8222(20050301)46:3L.1225;1-)

Click on the URL to access the article or to link to other issues of the publication.

Record 16.

TI: A Radiocarbon Perspective on Greenland ice-core Chronologies: can we use ice cores

for 14C Calibration?

AU: John Southon

JN: Radiocarbon

PD: March 2005

VO: 46

NO: 3

PG: 1239-1259(21)

PB: Arizona Board of Regents (University of Arizona)

IS: 0033-8222

URL: [http://www.ingentaselect.com/rpsv/cgi-bin/cgi?body=linker&reqidx=0033-8222\(20050301\)46:3L.1239;1-](http://www.ingentaselect.com/rpsv/cgi-bin/cgi?body=linker&reqidx=0033-8222(20050301)46:3L.1239;1-)

Click on the URL to access the article or to link to other issues of the publication.

Record 17.

TI: The Tropospheric 14CO<sub>2</sub> level in Mid-Latitudes of the Northern Hemisphere (1959-2003)

AU: Ingeborg Levin; Bernd Kromer

JN: Radiocarbon

PD: March 2005

VO: 46

NO: 3

PG: 1261-1272(12)

PB: Arizona Board of Regents (University of Arizona)

IS: 0033-8222

URL: [http://www.ingentaselect.com/rpsv/cgi-bin/cgi?body=linker&reqidx=0033-8222\(20050301\)46:3L.1261;1-](http://www.ingentaselect.com/rpsv/cgi-bin/cgi?body=linker&reqidx=0033-8222(20050301)46:3L.1261;1-)

Click on the URL to access the article or to link to other issues of the publication.

Record 18.

TI: Review of Tropospheric Bomb 14C Data for Carbon Cycle Modeling and age Calibration Purposes

AU: Quan Hua; Mike Barbetti

JN: Radiocarbon

PD: March 2005

VO: 46

NO: 3

PG: 1273-1298(26)

PB: Arizona Board of Regents (University of Arizona)

IS: 0033-8222

URL: [http://www.ingentaselect.com/rpsv/cgi-bin/cgi?body=linker&reqidx=0033-8222\(20050301\)46:3L.1273;1-](http://www.ingentaselect.com/rpsv/cgi-bin/cgi?body=linker&reqidx=0033-8222(20050301)46:3L.1273;1-)

Click on the URL to access the article or to link to other issues of the publication.

Record 19.

TI: Discussion: Reporting and Calibration of Post-Bomb 14C Data

AU: Paula J. Reimer; Thomas A. Brown; Ron W. Reimer

JN: Radiocarbon

PD: March 2005

VO: 46

NO: 3

PG: 1299-1304(6)

PB: Arizona Board of Regents (University of Arizona)

IS: 0033-8222

URL: [http://www.ingentaselect.com/rpsv/cgi-bin/cgi?body=linker&reqidx=0033-8222\(20050301\)46:3L.1299;1-](http://www.ingentaselect.com/rpsv/cgi-bin/cgi?body=linker&reqidx=0033-8222(20050301)46:3L.1299;1-)

Click on the URL to access the article or to link to other issues of the publication.

Record 20.

TI: Radiocarbon Updates

AU:

JN: Radiocarbon

PD: March 2005

VO: 46

NO: 3

PG: 1305-1306(2)

PB: Arizona Board of Regents (University of Arizona)

IS: 0033-8222

URL: [http://www.ingentaselect.com/rpsv/cgi-bin/cgi?body=linker&reqidx=0033-8222\(20050301\)46:3L.1305;1-](http://www.ingentaselect.com/rpsv/cgi-bin/cgi?body=linker&reqidx=0033-8222(20050301)46:3L.1305;1-)

Click on the URL to access the article or to link to other issues of the publication.

Record 21.

TI: Radiocarbon Laboratories

AU:

JN: Radiocarbon

PD: March 2005

VO: 46

NO: 3

PG: 1307-1334(28)

PB: Arizona Board of Regents (University of Arizona)

IS: 0033-8222

URL: [http://www.ingentaselect.com/rpsv/cgi-bin/cgi?body=linker&reqidx=0033-8222\(20050301\)46:3L.1307;1-](http://www.ingentaselect.com/rpsv/cgi-bin/cgi?body=linker&reqidx=0033-8222(20050301)46:3L.1307;1-)

Click on the URL to access the article or to link to other issues of the publication.

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## **AEGAEUM 25 (MAY 2005)**

**EMPORIA. Aegeans in the Central and Eastern  
Mediterranean.**

**Proceedings of the 10th International Aegean  
Conference, Athens, Italian School of Archaeology, 14-  
18 April 2004,**

**Edited by Robert Laffineur and Emanuele Greco**

**2 volumes, 843 p., 198 full-page plates**

### **Volume I**

Préface à la dixième édition

Abbreviations

### **A. METHODOLOGY OF EMPORIA**

Anna MICHAÏLIDOU and Katerina VOUTSA

*Merchants and Merchandise: Humans as a Commodity in Aegean and Oriental Societies*

Michael WEDDE

*The Mycenaean Galley in Context: From Fact to Idée fixe*

Joost CROUWEL

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## *EΙΔΗΣΕΙΣ - NEWS RELEASE*

# ARCHAEOLOGICAL DIG SNIFFS OUT WORLD'S OLDEST PERFUMERY

## MICHAEL THEODOULOU IN CYPRUS

MUSKY, with a woody tone and spicy hints of cinnamon - the perfect fragrance for a Bronze Age date.

Italian archaeologists have discovered the world's oldest perfumery and have identified the smells popular with the people of the time.

The perfumery was found at a sprawling archaeological site on a hillside overlooking the Mediterranean at Pyrgos-Mavroraki, 55 miles south-west of Nicosia.

"This is 4,000 years old. Without a doubt, it is the oldest production site for perfume in the world," said Maria Rosario Belgiorno, the excavation team leader.

The site was destroyed by an earthquake in antiquity but the calamity helped preserve the finds and it is now expected to unlock ancient secrets about the surprisingly advanced production methods.

"It is possible to reconstruct the technology of the site," Ms Belgiorno said. "It was very sophisticated for the time."

The find could explain two names which appear in an industry-standard list of ten fragrance families. Only two refer to geographic regions and both pertain to Chypre, French for Cyprus.

Fourteen different perfumes from ten essences were found at the Cyprus site. About a dozen have so far been reconstituted from the fragments of perfume bottles by Italian scientists.

Among the aromas found were those of cinnamon, laurel, myrtle, anise and citrus bergamot. Such ingredients are among those detailed by the Roman writer Pliny (AD23-79), who described the composition of various fragrances in his encyclopaedic *Historia Naturalis*.

The ancients required perfumes for more than smelling attractive. Aromatic resins were used in religious ceremonies and funeral rites, as well as for their medical properties. The ancient Egyptians were keen on aromatherapy.

"The Cypriots probably learned from the Egyptians. We know there were very strong links between the two," Ms Belgiorno said.

Perfumes have even been found in Egyptian predynastic graves. A royal tomb at Abydos dating back to about 3000 BC contained jars with coniferous resin mixed with plant oil and animal fats.

Even workmen were said to have received regular supplies of ointment and the first recorded strike in history occurred during the reign of Ramses III (1165BC), when supplies were interrupted to the tomb builders in the Valley of the Kings. So valued were perfumes that the Pharaohs had "very strong control" of its production, said Ms Belgiorno.

The perfumery in Cyprus formed part of a site dating from 2000BC which included a copper smelting works, a winery and an olive press that provided the base ingredient for the fragrances. Fragments of enormous storage jars capable of holding 500 litres of olive oil were found. The scale of the works suggests perfume played an important role in the island's trade at the time.

Please visit the site: <http://news.scotsman.com/international.cfm?id=212432005>

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## ARCHAEOLOGISTS UNCOVER BEAD- COVERED MUMMY

By JAMIE TARABAY, Associated Press Writer

SAQQARA, Egypt - Archaeologists uncovered three coffins and a remarkably well-preserved mummy in a 2,500-year old tomb discovered by accident - after opening a secret door hidden behind a statue in a separate burial chamber, Egypt's chief archaeologist said Wednesday.



The Australian team was exploring a much older tomb — dating back 4,200 years — belonging to a man believed to have been a tutor to the 6th Dynasty King Pepi II, when they moved a pair of statues and discovered the door, said Zahi Hawass, Egypt's top antiquities official.

Inside, they found a tomb from the 26th Dynasty with three intricate coffins, each with a mummy.

"Inside one coffin was maybe one of the best mummies ever preserved," Hawass told reporters at the excavation site in the cemetery of Saqqara, a barren hillside pocked with ancient graves about 15 miles south of Cairo.

"The chest of the mummy is covered with beads. Most of the mummies of this period — about 500 B.C. — the beads are completely gone, but this mummy has them all," he said, standing over one of the mummies that was swathed in turquoise blue beads and bound in strips of black linen.

The names of the mummies have not been determined, but the tomb is thought to be that of a middle-class official.

Hawass said the wooden coffins, called anthropoids because they were in the shape of human beings, bore inscriptions dating to the 26th Dynasty, together with a statue of a deity called Petah Sakar. Petah was the god of artisans, Hawass said, while Sakar was the god of the cemetery.

The door was hidden behind 4,200-year-old statues of a man believed to have been Meri, the tutor of Pepi II, and Meri's wife, whose name was not revealed.

Meri also was believed to oversee four sacred boats found in the pyramids, which were buried with Egypt's kings to help them in the afterlife, Hawass said.

"I believe this discovery can enrich us about two important periods in our history, the Old Kingdom, which dates back to 4,200 years, and the 26th Dynasty, that was 2,500 years ago," Hawass said.

According to tradition, Pepi II — the last ruler of the 6th Dynasty — ruled from 2278-2184 B.C., one of the longest reigns in ancient Egyptian history.

Naguib Kanawati, the head of the Australian team from Sydney's Macquarie University, said the site had fallen into neglect after Pepi II's rule and was covered by 50 feet of sand, until it was used again as a cemetery 2,600 years later.

"By that time the art of mummification was perfected to the extreme," Kanawati said.

Archaeologists would begin tests on the mummies to learn more about their medical conditions, including using CT scans, as they were presently doing on King Tutankhamun, Hawass said. The results of Tut's scans will be revealed next week, he said.

**Please visit the site:**

[http://story.news.yahoo.com/news?tmpl=story&cid=1894&e=1&u=/ap/20050302/ap\\_on\\_sc/egypt\\_mummies\\_uncovered](http://story.news.yahoo.com/news?tmpl=story&cid=1894&e=1&u=/ap/20050302/ap_on_sc/egypt_mummies_uncovered)

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## **DIGS AT ARCHONTIKO, PELLA** **UNCOVER MORE GOLD-CLAD** **WARRIORS, FINDS IN 141 TOMBS ADD** **TO PICTURE OF ANCIENT MACEDONIA**

By Iota Myrtsiote – Kathimerini



*Bronze helmet with gold decoration from a mid-sixth-century-BC warrior's grave. Many Macedonian officers were buried in full armor, together with swords, spears and knives.*

The gold of the ancient Macedonians still gleams on the soldiers' uniforms being unearthed by excavations in the ancient necropolis of Archontiko in Pella.

Fully armed Macedonian aristocrats, gold-bedecked women in elaborate jewelry, faience idols and clay vases of exceptional beauty had lain concealed for centuries in 141 simple rectangular trench graves that were discovered recently in the ancient settlement.

### **For Charon**

In their tombs, Macedonian officers wore armor and — in the late Classical and early Hellenistic periods — were equipped for the journey after death with coins for Charon, copper utensils made by local metalworkers, and rare incense or oil containers with the war of the giants depicted in relief.

These are not the first discoveries of gold-embroidered uniforms at Archontiko. Archaeologists Pavlos and Anastassia Chrystostomou from the 17th Ephorate of Prehistoric and Classical Antiquities found the first warriors in full armor four years ago while excavating the cemetery.

The contents of the latest 141 tombs to be discovered were presented recently at the ephorate's archaeological conference.

The typical Archontiko tomb contained gold masks, gold breastplates, clothes and shoes adorned with gold strips, helmets, shields, swords, spears and knives embellished with gold strips or rosettes.

Though only 2 percent of the 20-hectare cemetery has been excavated, the harvest has already been rich.

The dozens of finds help form an image of the socioeconomic organization, burial rituals, high living standard, aristocratic origins and leading role of the families in one of the most significant urban centers of ancient Macedonia from prehistoric times until the end of the fifth century BC.

As the Chrysostomou couple explained, the ancient settlement built in the middle of the plain of Bottiaia, close to the ancient route connecting East and West — later name the Egnatia Road — was one of the most important urban centers before the foundation of the capital of Pella.

This is confirmed by the 541 tombs dating from the Iron Age, through the Classical period and up to the early Hellenistic era (seventh century BC - 280 BC). This year's investigation of a family cluster (in the broad sense of a clan) produced rich finds, as important as those of previous years.

A trove of grave ornaments was found in the 25 male and 17 female tombs dating to the Archaic era (first half of the sixth century BC to the beginning of the fifth century BC).

The men were mostly in full armor, with helmets adorned with incised gold strips, steel swords with gold on the handles, spears and knives. Gold foil sheets with embossed ornamentation adorn the leather breastplates, clothing, footwear and hand coverings of the warriors. Apart from gold and silver jewelry, numerous other objects, such as bronze and clay vases, clay idols, metal likenesses of farm carts, furniture and spits accompanied the male burials.

These objects present the first impression of a warrior, while the other grave offerings reveal the deceased's personal and social prestige, two centuries before the rule of Phillip II and Alexander III.

The women were bedecked in jewelry that reveals their high social status. The grave ornaments (clay and metal vases, more rarely of glass or faience, or metal likenesses of carts) are related to the funeral customs of the journey to Hades.

Impressive items among this year's finds were large silver clasps with disk-shaped heads adorned with rosettes and an 85-centimeter braided chain decorated in a style that predates those of Ephesus, Rhodes, and Eleutherna in Crete.

The necklace went around the chest where it was fastened by pins onto the clothing. It has gilded snake heads, seated lions and the heads of the female divinity Potnia of Thera.

The funeral ornaments in the women's graves seem to have come to Macedonia from distant places. Among them are faience idols, probably from workshops on Rhodes, and clay vases from Kerameikos in Athens and Corinthian and Ionian workshops.

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